What is claimed is:

1. A system for synchronizing video indexing between an A/V signal and data for a broadcast program comprising:

a broadcast data synchronization and transmission system which produces live broadcast program to be broadcasted and XML information for the live broadcast program, combining the XML TAG information with the produced broadcast program, and transmitting the combined data of MPEG transport stream to a broadcasting network; and

a receiving system which receives the MPEG transport stream from the broadcasting network, simultaneously records and playbacks the MPEG transport stream, and reads information required for user video indexing by analyzing the XML TAG received in synchronization with specified sections of the MPEG transport stream.

2. A system of claim 1, wherein the broadcast data synchronization and transmission system comprises:

a contents production and synchronization unit which produces, in real time, the XML TAG information and produces live broadcast program to be broadcasted; and

a data transmission unit combines the XML TAG information from the contents production and synchronization unit with the produced broadcast program, and transmits the combined data as the MPEG transport stream.

3. A system of claim 2, wherein the contents production and

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synchronization unit comprises:

a stream unit which detects GOP positions of an MPEG stream to be broadcasted on a TV;

a shot/scene unit which sets and marks the XML TAG in the corresponding GOP positions detected by the stream unit;

an XML unit which synchronizes the marked XML TAG with the MPEG stream to be broadcasted; and

a generation unit which generates and outputs the XML TAG information based upon the result from the XML unit.

4. A system of claim 2, wherein the data transmission unit comprises:

a data encoder which combines the XML TAG information with the produced broadcast program to be transmitted; and

an MPEG stream transmitter which transmits to the broadcasting network the combined data from the data encoder.

5. A system of claim 1, wherein the receiving system comprises:

a simultaneous record/playback unit which simultaneously records and playbacks the MPEG transport stream received from the broadcast data synchronization and transmission system;

a storage unit which stores the MPEG transport stream to be recorded in the simultaneous record/playback unit;

a XML parser unit which analyzes a XML file among the MPEG transport stream stored in the storage unit;

a media control unit which synchronizes an object file among

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the MPEG transport stream stored in the storage unit and controls an operation of a video cartridge recorder, where the object file is a combination of an MPEG file and the XML file;

a synchronization decomposition unit which searches for synchronized positions of specified section of the MPEG stream based on the outputs from the XML parser unit and the media control unit; and

a metadata index unit which systematically stores information output from the sync decomposition unit.

6. A system of claim 5, wherein the simultaneous record/playback unit comprises:

a tuner which tunes the MPEG transport stream received through a broadcasting network;

a demodulator which demodulates a digital broadcasting signal output from the tuner and outputting a live stream;

an encoder which encodes an analog broadcasting signal output from the tuner and outputs transport stream signals;

a data PID filter unit which detects transport stream signals to be stored by filtering the live stream output from the demodulator;

a time stamp header unit which constructs a header by considering transport stream signals other than the transport stream signals detected at the data PID filter unit and by counting figures of a NULL packet, and inserts the header among the considered TS signals;

a TS storage unit which stores the transport stream signal

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produced from the time stamp header unit and the transport stream signal produced from the encoder;

a stamp control unit which controls edition and reading of the transport stream signal stored in the TS storage unit;

a storage control unit which manages information stored in the TS storage unit;

a MUX which selects and outputs one of the TS signals output from the stamp control unit or the demodulator; and

a decoder unit which decodes a signal selected by the MUX.

7. A system of claim 5, wherein the receiving system further comprises:

an EPG unit which controls the metadata index unit such that a user can search information stored in the metadata index unit; and

a TV display unit which displays information stored in the metadata index unit and the broadcasting information read by the simultaneous R/P unit.

8. A system for synchronizing video indexing between an A/V signal and data for a broadcast program comprising:

a contents production and synchronization unit which produces live broadcast program to be broadcasted and XML TAG information of the broadcast program; and

a data transmission unit combines the XML TAG information from the contents production and synchronization unit with the produced broadcast program, and transmits the combined data as

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MPEG transport stream to a broadcasting network.

9. A system of claim 8, wherein the contents production and synchronization unit comprises:

a stream unit which detects GOP positions of an MPEG stream to be broadcasted on a TV;

a shot/scene unit which sets and marks the XML TAG in the corresponding GOP positions detected by the stream unit;

an XML unit which synchronizes the marked XML TAG with the MPEG stream to be broadcasted; and

a generation unit which generates and outputs the XML TAG information based upon the result from the XML unit.

10. A system of claim 8, wherein the data transmission unit comprises:

a data encoder which combines the XML TAG information with the produced broadcast program to be transmitted; and

an MPEG stream transmitter which transmits to the broadcasting network the combined data from the data encoder.

11. A system of claim 8, further comprising a receiving system which receives the MPEG transport stream from the broadcasting network, simultaneously records and playbacks the MPEG transport stream, and reads information required for user video indexing by analyzing the XML TAG received in synchronization with specified sections of the MPEG transport stream.

12. A system of claim 11, wherein the receiving system comprises:

a simultaneous record/playback unit which simultaneously records and playbacks the MPEG transport stream received from the broadcast data synchronization and transmission system;

a storage unit which stores the MPEG transport stream to be recorded in the simultaneous record/playback unit;

a XML parser unit which analyzes a XML file among the MPEG transport stream stored in the storage unit;

a media control unit which synchronizes an object file among the MPEG transport stream stored in the storage unit and controls an operation of a video cartridge recorder, where the object file is a combination of an MPEG file and the XML file;

a synchronization decomposition unit which searches for synchronized positions of specified section of the MPEG stream based on the outputs from the XML parser unit and the media control unit; and

a metadata index unit which systematically stores information output from the sync decomposition unit.

13. A system of claim 12, wherein the simultaneous record/playback unit which simultaneously records and playbacks the MPEG transport stream received from the broadcast data synchronization and transmission system;

a tuner which tunes the MPEG transport stream received through a broadcasting network;

a demodulator which demodulates a digital broadcasting

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signal output from the tuner and outputting a live stream;

an encoder which encodes an analog broadcasting signal output from the tuner and outputs transport stream signals;

a data PID filter unit which detects transport stream signals to be stored by filtering the live stream output from the demodulator;

a time stamp header unit which constructs a header by considering transport stream signals other than the transport stream signals detected by the data PID filter unit and by counting figures of a NULL packet, and inserts the header among the considered transport stream signals;

a TS storage unit which stores the transport stream signal produced from the time stamp header unit and the transport stream signal produced from the encoder;

a stamp control unit which controls edition and reading of the transport stream signal stored in the TS storage unit;

a storage control unit which manages information stored in the TS storage unit;

a MUX which selects and outputs one of the transport stream signals output from the stamp control unit or the demodulator; and

a decoder unit which decodes a signal selected by the MUX.

14. A receiving system in a system for synchronizing video indexing between an A/V signal and data for a broadcast program comprising:

a simultaneous record/playback unit which simultaneously

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records and playbacks a broadcast program received from a
broadcasting network;

a storage unit which stores the broadcast program to be
recorded in the simultaneous record/playback unit;

a XML parser unit which analyzes a XML file in the broadcast
program stored in the storage unit;

a media control unit which synchronizes an object file in
the broadcast program stored in the storage unit and controls an
operation of a video cartridge recorder, where the object file
is a combination of an MPEG file and the XML file;

a synchronization decomposition unit which searches for
synchronized positions of specified section of the broadcast
program based on the outputs from the XML parser unit and the
media control unit; and

a metadata index unit which systematically stores
information output from the sync decomposition unit.

15. A system of claim 14, wherein the receiving system
further comprises:

an EPG unit which controls the metadata index unit such that
a user can search information stored in the metadata index unit;
and

a TV display unit which displays information stored in the
metadata index unit and the broadcasting information read by the
simultaneous R/P unit.

16. A system of claim 14, wherein the storage unit

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comprises:

an MPEG file unit which stores a corresponding MPEG stream of the broadcast program from the simultaneous record/playback unit; and

an XML file unit which stores the XML data carrying synchronization information from the simultaneous record/playback unit.

17. A system of claim 16, wherein the synchronization information is time information.

18. A method for synchronizing video indexing between an A/V signal and data for a broadcast program comprising:

producing, at a transmitting unit, live broadcast program to be broadcasted and XML TAG information for the live broadcast program; and

combining the XML TAG information with the produced broadcast program, and transmitting the combined data of MPEG-2 transport stream to a broadcasting network.

19. A method of claim 18, further comprising:

receiving, at the receiving unit, the MPEG transport stream from the broadcasting network; and

simultaneously recording and playing back the MPEG-2 transport stream, and reads information required for user video indexing by analyzing the XML TAG received in synchronization with specified sections of the MPEG transport stream.

20. A method of claim 19, wherein simultaneously recording and playing back the MPEG transport stream comprises:

reading an XML TAG from the MPEG transport stream and detecting a time offset from the XML TAG;

converting the detected time offset to a file offset;

generating GOP index files from the MPEG transport stream;

reading a GOP index file and comparing the GOP index file to the file offset;

storing the GOP index file and the XML TAG if the file offset is equal to the GOP index file, otherwise, reading a next GOP index file and compared to the file offset until a GOP index file which matches the file offset is found for storage with the XML TAG.

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